



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BIO-LIN-LED4-HO-04-ABW-D1X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L041412303R02
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 6/18/2015
 [MANUFAC] PRUDENTIAL LIGHTING
 [LUMCAT] BIO-LIN-LED4-HO-04-ABW-D1X
 [LUMINAIRE] 48-1/8"L X 5-1/2"W X 5-5/8"H. LED LUMINAIRE.
 [MORE] DIFFUSED LENS.
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC,
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [_TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	47
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.83 ft
Luminous Width (90-270)	0.33 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9930	13342	12332
55	8929	11899	9182
65	7910	10008	7002
75	6616	7317	5101
85	5157	4431	3587

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CANDELA TABULATION

	0	5	10	15	20	25	30	35	40	45
0	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072
5	1434.255	1434.907	1436.305	1438.682	1441.944	1447.559	1453.431	1459.069	1463.916	1468.948
10	1406.551	1408.135	1412.959	1421.067	1431.086	1444.763	1459.838	1474.960	1489.336	1503.689
15	1362.258	1365.333	1375.469	1390.311	1409.860	1433.859	1459.186	1484.257	1508.092	1530.297
20	1301.701	1306.990	1322.275	1345.855	1375.539	1408.928	1443.761	1475.938	1505.343	1531.206
25	1227.118	1234.387	1255.148	1286.882	1325.071	1366.312	1407.064	1443.388	1473.748	1498.423
30	1139.580	1148.783	1174.763	1213.231	1258.037	1304.311	1348.045	1384.369	1412.795	1434.208
35	1041.813	1052.508	1081.889	1125.320	1174.157	1223.064	1266.238	1300.886	1326.213	1344.759
40	935.472	946.912	978.507	1023.662	1073.804	1122.571	1164.650	1196.688	1219.871	1236.787
45	825.239	837.495	869.649	911.612	960.240	1006.327	1045.751	1075.342	1096.381	1108.800
50	712.467	725.143	758.997	801.590	836.120	878.550	914.572	940.458	955.696	960.985
55	601.909	612.604	637.348	673.347	710.114	743.107	775.051	803.477	805.225	802.126
60	504.771	510.526	531.193	560.808	595.781	623.811	651.515	671.180	668.058	657.689
65	392.885	403.137	413.738	437.038	465.021	489.440	507.521	514.977	512.414	497.082
70	296.353	299.801	307.327	321.796	341.345	354.673	365.554	371.146	365.833	350.479
75	201.242	202.710	206.741	216.713	219.742	230.950	238.755	240.060	234.212	222.585
80	119.785	117.828	120.298	117.129	122.488	127.171	129.548	128.686	124.422	117.921
85	52.821	50.584	48.045	48.184	48.813	49.233	49.116	48.394	47.066	45.388
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	50	55	60	65	70	75	80	85	90
0	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072	1448.072
5	1473.678	1478.105	1482.532	1485.515	1487.868	1490.035	1491.876	1493.600	1495.860
10	1516.853	1528.783	1539.734	1548.565	1556.184	1561.449	1565.387	1570.001	1572.890
15	1549.683	1566.319	1581.091	1592.508	1602.621	1609.121	1613.339	1618.185	1618.907
20	1552.339	1569.022	1582.629	1593.370	1601.269	1605.696	1608.748	1612.220	1611.777
25	1516.993	1530.321	1541.155	1548.634	1553.481	1555.997	1557.255	1559.003	1560.354
30	1449.050	1459.955	1468.692	1474.517	1478.105	1479.853	1480.272	1482.579	1483.488
35	1358.134	1367.687	1375.282	1378.614	1379.127	1378.125	1377.100	1377.566	1377.869
40	1247.529	1253.307	1254.588	1249.835	1242.892	1234.644	1228.656	1225.184	1223.786
45	1112.924	1109.103	1098.595	1081.819	1063.715	1047.312	1035.172	1027.973	1024.850
50	954.415	938.734	914.735	888.243	862.752	840.314	823.096	813.543	811.283
55	784.697	758.182	727.403	696.344	668.966	647.577	629.985	620.083	618.988
60	633.876	606.080	572.038	543.449	519.007	497.571	484.826	477.906	477.161
65	472.547	445.193	418.654	395.238	377.949	363.340	354.626	348.405	347.799
70	330.091	309.028	289.526	273.985	261.403	252.782	246.747	242.879	241.994
75	208.488	195.231	183.348	173.818	166.758	161.772	158.021	155.947	155.155
80	110.722	104.500	99.048	94.738	91.476	88.959	87.212	86.233	85.837
85	43.618	42.010	40.612	39.400	38.422	37.583	37.070	36.767	36.744
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	566.69	N.A.	13.60
0-30	1232.42	N.A.	29.60
0-40	2032.5	N.A.	48.90
0-60	3456.15	N.A.	83.10
0-80	4103.59	N.A.	98.70
0-90	4157.45	N.A.	100.00
10-90	4016.65	N.A.	96.60
20-40	1465.8	N.A.	35.30
20-50	2252.51	N.A.	54.20
40-70	1855.53	N.A.	44.60
60-80	647.44	N.A.	15.60
70-80	215.56	N.A.	5.20
80-90	53.85	N.A.	1.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4157.45	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	140.80
10-20	425.90
20-30	665.72
30-40	800.08
40-50	786.71
50-60	636.95
60-70	431.88
70-80	215.56
80-90	53.85
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

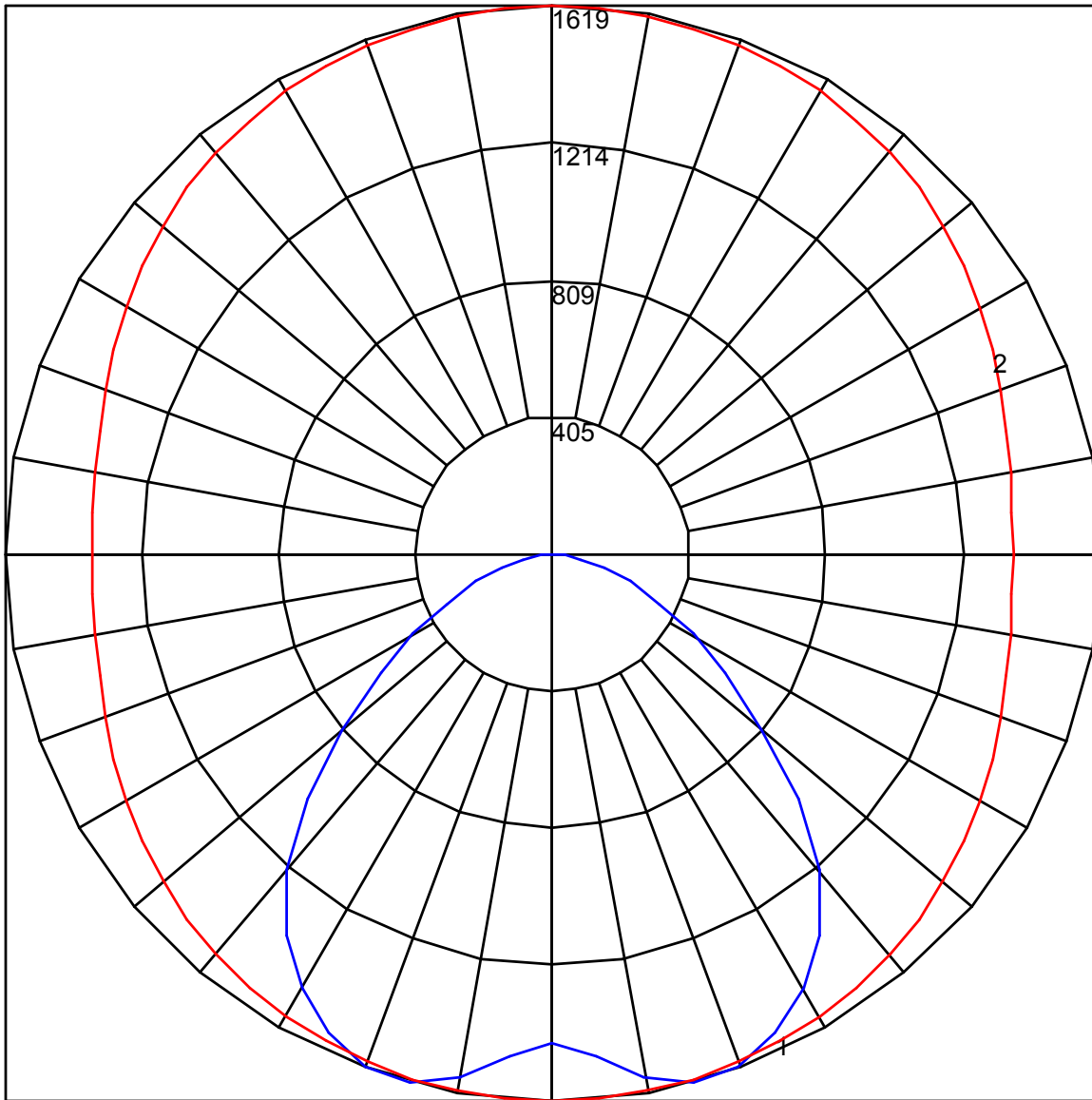
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1618.907 Located At Horizontal Angle = 90, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)